

Abstract of the Disclosure

Thermal barrier coating forming method to form a thermal barrier coating by spray coating over the surface of a component where cooling holes are made: A thermal barrier coating is formed by spray coating after masking pins, which do not protrude above the surface of the component, are inserted into the cooling holes, thus making it possible to form a thermal barrier coating all over the surface without clogging the cooling holes.

Abstract

The present invention is a thermal barrier coating method to form a thermal barrier coating by spray coating over the surface of a component where cooling holes are made. The thermal barrier coating is formed by spray coating after masking pins, which do not protrude above the surface of the component, are inserted into the cooling holes or masking pins protruding above the surface of the component are inserted and get shrunk due to heat while spray coating, obtaining the protruding amount equal to or less than the thickness of the thermal barrier coating after shrinkage, which characterizes the method. By way of this method, a thermal barrier coating can be formed all over the surface without clogging the cooling holes.